



1653

*See page 6*

## RAW SEQUENCE LISTING

DATE: 07/22/2002

PATENT APPLICATION: US/09/883,119A

TIME: 15:13:35

Input Set : N:\Crf3\06252002\I883119.raw

Output Set: N:\CRF3\07222002\I883119A.raw

C--> 1 <110> APPLICANT: The University of Texas System Board of Regents  
 2 <120> TITLE OF INVENTION: Regulatable, Catalytically Active Nucleic Acids  
 3 <130> FILE REFERENCE: 119927-1050  
 4 <140> CURRENT APPLICATION NUMBER: US/09/883,119A  
 5 <141> CURRENT FILING DATE: 2000-06-14  
 6 <150> PRIOR APPLICATION NUMBER: 60/212,097  
 7 <151> PRIOR FILING DATE: 2000-06-15  
 8 <160> NUMBER OF SEQ ID NOS: 44  
 9 <170> SOFTWARE: PatentIn version 3.1  
 11 <210> SEQ ID NO: 1  
 12 <211> LENGTH: 129  
 13 <212> TYPE: DNA  
 14 <213> ORGANISM: Artificial Sequence  
 15 <220> FEATURE:  
 16 <223> OTHER INFORMATION: Engineered Aptazyme  
 17 <400> SEQUENCE: 1  
 18     taatcttacc ccggaattat atccagctgc atgtcaccat gcagagcaga ctatatctcc     60  
 19     aacttggttaa agcaagttgt ctatcggttc gagtcacttg accctactcc ccaaagggat     120  
 20     agtcggttag     129  
 22 <210> SEQ ID NO: 2  
 23 <211> LENGTH: 131  
 24 <212> TYPE: DNA  
 25 <213> ORGANISM: Artificial Sequence  
 26 <220> FEATURE:  
 27 <223> OTHER INFORMATION: Engineered Aptazyme  
 28 <400> SEQUENCE: 2  
 29     gcctgagtat aaggtgactt ataactgtaa tctatctaaa cggggaacct ctctagtaga     60  
 30     caatcccgtg ctaaattata ccagcatcgt ctgtagcccc ttggcagata aatgcctaac     120  
 31     gactatccct t     131  
 33 <210> SEQ ID NO: 3  
 34 <211> LENGTH: 75  
 35 <212> TYPE: DNA  
 36 <213> ORGANISM: Artificial Sequence  
 37 <220> FEATURE:  
 38 <223> OTHER INFORMATION: Engineered Aptazyme  
 39 <400> SEQUENCE: 3  
 40     gataatacga ctactatag ggatcaacgc tcagtagatg ttttcttggg ttaattgagg     60  
 41     cctgagtata aggtg     75  
 43 <210> SEQ ID NO: 4  
 44 <211> LENGTH: 89  
 45 <212> TYPE: DNA  
 46 <213> ORGANISM: Artificial Sequence  
 47 <220> FEATURE:

**ENTERED**

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Output Set: N:\CRF3\07222002\I883119A.raw

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48 <223> OTHER INFORMATION: Engineered Aptazyme
49 <220> FEATURE:
50 <221> NAME/KEY: misc_feature
51 <223> OTHER INFORMATION: Engineered Sequence
52 <400> SEQUENCE: 4
53      cttagctaca atatgaacta acgtagcata tgacgcaata ttaaacggta gcattatgtt      60
54      cagataaggt cgттаатстт accccggaa      89
56 <210> SEQ ID NO: 5
57 <211> LENGTH: 131
58 <212> TYPE: DNA
59 <213> ORGANISM: Artificial Sequence
60 <220> FEATURE:
61 <223> OTHER INFORMATION: Engineered Aptazyme
62 <220> FEATURE:
63 <221> NAME/KEY: misc_feature
64 <222> LOCATION: (77)..(77)
65 <223> OTHER INFORMATION: n=a,c,t, or g
66 <220> FEATURE:
67 <221> NAME/KEY: misc_feature
68 <222> LOCATION: (108)..(108)
69 <223> OTHER INFORMATION: n=a,c,t, or g
70 <400> SEQUENCE: 5
71      gcctgagtat aaggtgactt atactagtaa tctatctaaa cggggaacct ctctagtaga      60
W--> 72      caatcccggtg ctaaатnata ccagcatcgt cttgatgccc ttggcagnta aatgcctaac      120
73      gactatccct t      131
75 <210> SEQ ID NO: 6
76 <211> LENGTH: 101
77 <212> TYPE: DNA
78 <213> ORGANISM: Artificial Sequence
79 <220> FEATURE:
80 <223> OTHER INFORMATION: Engineered Aptazyme
81 <220> FEATURE:
82 <221> NAME/KEY: misc_feature
83 <223> OTHER INFORMATION: Engineered Aptazyme
84 <220> FEATURE:
85 <221> NAME/KEY: misc_feature
86 <223> OTHER INFORMATION: Engineered Sequence
87 <400> SEQUENCE: 6
88      cttagctaca atatgaacta acgtagcata tgacgcaata ttaaacggta gtattatgtt      60
89      cagataaggt cgттаатстт accccggaat tctatccagc t      101
91 <210> SEQ ID NO: 7
92 <211> LENGTH: 116
93 <212> TYPE: DNA
94 <213> ORGANISM: Artificial Sequence<220><223> Engineered Aptazyme
95 <220> FEATURE:
96 <221> NAME/KEY: misc_feature
97 <222> LOCATION: (37)..(87)
98 <223> OTHER INFORMATION: n=a, t, g, or g
99 <400> SEQUENCE: 7

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Input Set : N:\Crf3\06252002\I883119.raw

Output Set: N:\CRF3\07222002\I883119A.raw

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W--> 100      ttctaatacg actcactata ggacctcggc gaaagcnnnnn nnnnnnnnnnn nnnnnnnnnnn      60
W--> 101      nnnnnnnnnnn nnnnnnnnnnn nnnnnngagg ttaggtgcct cgtgatgtcc agtcgc      116
103 <210> SEQ ID NO: 8
104 <211> LENGTH: 20
105 <212> TYPE: DNA
106 <213> ORGANISM: Artificial Sequence
107 <220> FEATURE:
108 <223> OTHER INFORMATION: primer
109 <400> SEQUENCE: 8
110      ttctaatacg actcactata      20
112 <210> SEQ ID NO: 9
113 <211> LENGTH: 18
114 <212> TYPE: DNA
115 <213> ORGANISM: Artificial Sequence
116 <220> FEATURE:
117 <223> OTHER INFORMATION: primer
118 <400> SEQUENCE: 9
119      gcgactggac atcacgag      18
121 <210> SEQ ID NO: 10
122 <211> LENGTH: 36
123 <212> TYPE: DNA
124 <213> ORGANISM: Artificial Sequence
125 <220> FEATURE:
126 <223> OTHER INFORMATION: primer
127 <400> SEQUENCE: 10
128      ttctaatacg actcactata ggacctcggc gaaagc      36
130 <210> SEQ ID NO: 11
131 <211> LENGTH: 80
132 <212> TYPE: DNA
133 <213> ORGANISM: Artificial Sequence
134 <220> FEATURE:
135 <223> OTHER INFORMATION: competitor sequence
136 <400> SEQUENCE: 11
137      gggaauggau ccacaucuac gaauucgagu cgagaacugg ugcgaaugcg aguaaguuca      60
138      cuccagacuu gacgaagcuu      80
140 <210> SEQ ID NO: 12
141 <211> LENGTH: 82
142 <212> TYPE: DNA
143 <213> ORGANISM: Artificial Sequence
144 <220> FEATURE:
145 <223> OTHER INFORMATION: competitive sequence
146 <400> SEQUENCE: 12
147      gggaauggau ccacaucuac gaauucguag cguagaguau gagagagcca aggucagguu      60
148      cacuccagac uugacgaagc uu      82
150 <210> SEQ ID NO: 13
151 <211> LENGTH: 80
152 <212> TYPE: DNA
153 <213> ORGANISM: Artificial Sequence
154 <220> FEATURE:

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Input Set : N:\Crf3\06252002\I883119.raw

Output Set: N:\CRF3\07222002\I883119A.raw

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155 <223> OTHER INFORMATION: competitive sequence
156 <400> SEQUENCE: 13
157      gggaauggau ccacaucauc gaauucauca gggcuaaaaga gugcagaguu acuuaguuca      60
158      cuccagacuu gacgaagcuu      80
160 <210> SEQ ID NO: 14
161 <211> LENGTH: 211
162 <212> TYPE: DNA
163 <213> ORGANISM: Artificial Sequence
164 <220> FEATURE:
165 <223> OTHER INFORMATION: competitive sequence
166 <400> SEQUENCE: 14
167      gacuaauaug auuuggucuc auuaaagauc acaaaauugcu ggaaacuccu uugaggcuag      60
168      gacaucagc aaggaaguua acauuaaauug uuaaaaccuu cagagacuag acgugaucau      120
169      uuaauagacg ccuugcgguu cuuauuagau aagguauagu ccaaaauugu auguaaaauac      180
170      aaaaugauaa aaaaaaauga aaucauaugg g      211
172 <210> SEQ ID NO: 15
173 <211> LENGTH: 80
174 <212> TYPE: DNA
175 <213> ORGANISM: Artificial Sequence
176 <220> FEATURE:
177 <223> OTHER INFORMATION: competitive sequence
178 <220> FEATURE:
179 <221> NAME/KEY: misc_feature
180 <222> LOCATION: (27)..(56)
181 <223> OTHER INFORMATION: n=a,c,t, or g
182 <400> SEQUENCE: 15
W--> 183      gggaauggau ccacaucauc gaauucnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnuuca      60
184      cuccagacuu gacgaagcuu      80
186 <210> SEQ ID NO: 16
187 <211> LENGTH: 122
188 <212> TYPE: DNA
189 <213> ORGANISM: Artificial Sequence
190 <220> FEATURE:
191 <223> OTHER INFORMATION: Parental P6 construct
192 <400> SEQUENCE: 16
193      gcctgagtat aaggtgactt atacttgtaa tctatctaaa cggggaacct ctctagtaga      60
194      caatccgtg ctaaattgta ggactgcccg ggttctacat aaatgcctaa cgactatccc      120
195      tt      122
197 <210> SEQ ID NO: 17
198 <211> LENGTH: 24
199 <212> TYPE: DNA
200 <213> ORGANISM: Artificial Sequence
201 <220> FEATURE:
202 <223> OTHER INFORMATION: primer
203 <400> SEQUENCE: 17
204      ttatactagt aatctatcta aacg      24
206 <210> SEQ ID NO: 18
207 <211> LENGTH: 24
208 <212> TYPE: DNA

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## RAW SEQUENCE LISTING

DATE: 07/22/2002

PATENT APPLICATION: US/09/883,119A

TIME: 15:13:35

Input Set : N:\Crf3\06252002\I883119.raw

Output Set: N:\CRF3\07222002\I883119A.raw

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209 <213> ORGANISM: Artificial Sequence
210 <220> FEATURE:
211 <223> OTHER INFORMATION: primer
212 <400> SEQUENCE: 18
213      cccggaattc tatccagctg catg
215 <210> SEQ ID NO: 19
216 <211> LENGTH: 94
217 <212> TYPE: DNA
218 <213> ORGANISM: Artificial Sequence
219 <220> FEATURE:
220 <223> OTHER INFORMATION: oligonucleotide
221 <400> SEQUENCE: 19
222      gcctgagtat aaggtgactt atacttgtaa tctatctaaa cggggaacct ctctagtaga
223      caatcccgtg ctaaattgcct aacgactatc cctt
225 <210> SEQ ID NO: 20
226 <211> LENGTH: 131
227 <212> TYPE: DNA
228 <213> ORGANISM: Artificial Sequence
229 <220> FEATURE:
230 <223> OTHER INFORMATION: oligonucleotide
231 <400> SEQUENCE: 20
232      gcctgagtat aaggtgactt atacttgtaa tctatctaaa cggggaacct ctctagtaga
233      caatcccgtg ctaaattata ccagcatcgt cttgatgcc ttggcagata aatgcctaac
234      gactatccct t
236 <210> SEQ ID NO: 21
237 <211> LENGTH: 133
238 <212> TYPE: DNA
239 <213> ORGANISM: Artificial Sequence
240 <220> FEATURE:
241 <223> OTHER INFORMATION: oligonucleotide
242 <400> SEQUENCE: 21
243      gcctgagtat aaggtgactt atacttgtaa tctatctaaa cggggaacct ctctagtaga
244      caatcccgtg ctaaattgat accagcatcg tcttgatgcc cttggcagca taaatgccta
245      acgactatcc ctt
247 <210> SEQ ID NO: 22
248 <211> LENGTH: 119
249 <212> TYPE: DNA
250 <213> ORGANISM: Artificial Sequence
251 <220> FEATURE:
252 <223> OTHER INFORMATION: oligonucleotide
253 <400> SEQUENCE: 22
254      gcctgagtat aaggtgactt atacttgtaa tctatctaaa cggggaacct ctctagtaga
255      caatcccgtg cataccagca tcgtcttgat gcccttgga ggcctaacga ctatccctt
257 <210> SEQ ID NO: 23
258 <211> LENGTH: 129
259 <212> TYPE: DNA
260 <213> ORGANISM: Artificial Sequence
261 <220> FEATURE:
262 <223> OTHER INFORMATION: oligonucleotide

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RAW SEQUENCE LISTING ERROR SUMMARY  
PATENT APPLICATION: US/09/883,119A

DATE: 07/22/2002  
TIME: 15:13:36

Input Set : N:\Crf3\06252002\I883119.raw  
Output Set: N:\CRF3\07222002\I883119A.raw

Please Note:

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

Seq#:5; N Pos. 77,108  
Seq#:7; N Pos. 37,38,39,40,41,42,43,44,45,46,47,48,49,50,51,52,53,54,55,56  
Seq#:7; N Pos. 57,58,59,60,61,62,63,64,65,66,67,68,69,70,71,72,73,74,75,76  
Seq#:7; N Pos. 77,78,79,80,81,82,83,84,85,86  
Seq#:15; N Pos. 27,28,29,30,31,32,33,34,35,36,37,38,39,40,41,42,43,44,45,46  
Seq#:15; N Pos. 47,48,49,50,51,52,53,54,55,56  
Seq#:35; N Pos. 37,38,39,40,41,42,43,44,45,46,47  
Seq#:36; N Pos. 14,15,16,17  
Seq#:37; N Pos. 39,40,41,42,43  
Seq#:41; N Pos. 28  
Seq#:43; N Pos. 31  
Seq#:44; N Pos. 32

## VERIFICATION SUMMARY

DATE: 07/22/2002

PATENT APPLICATION: US/09/883,119A

TIME: 15:13:36

Input Set : N:\Crf3\06252002\I883119.raw

Output Set: N:\CRF3\07222002\I883119A.raw

L:5 M:271 C: Current Filing Date differs, Replaced Current Filing Date

L:72 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:5 after pos.:60

L:100 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:7 after pos.:0

L:101 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:7 after pos.:60

L:183 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:15 after pos.:0

L:390 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:35 after pos.:0

L:404 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:36 after pos.:0

L:417 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:37 after pos.:0

L:457 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:41 after pos.:0

L:479 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:43 after pos.:0

L:492 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:44 after pos.:0

## STATISTICS SUMMARY

DATE: 07/22/2002

PATENT APPLICATION: US/09/883,119A

TIME: 15:13:36

Input Set : N:\Crf3\06252002\I883119.raw

Output Set: N:\CRF3\07222002\I883119A.raw

Application Serial Number: US/09/883,119A

Alpha or Numeric: Numeric

Application Class:

Application File Date: 06-14-2000

Art Unit: 1653

Software Application: PatentIN3.1

Total Number of Sequences: 44

Total Nucleotides: 3741

Total Amino Acids: 0

Number of Errors: 0

Number of Warnings: 10

Number of Corrections: 1

## MESSAGE SUMMARY

271 C: 1 (Current Filing Date differs)

341 W: 10 ((46) "n" or "Xaa" used)